40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- Quick connect terminals
- 40 Amp contact rating
- High momentary carry current (60A)
- High operating temperature (110°C)
- SPST (1 Form A), SPDT (1 Form C)
- Epoxy sealed versions available
- Metal or plastic mounting bracket available
- Resistor or diode parallel to coil available
- ISO/TS 16949, ISO14000
- Tested in accordance with SAE J2544



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)		
Ratings	Resistive load:		
	Max. switched power: 560 W (SPST) 560 W (N.O.) 420 W (N.C.)		
	Max. switched current: 40 A (SPST) 40 A (N.O.) 30 A (N.C.)		
	Max. switched voltage: 75 VDC		
Material	Silver tin oxide		
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)		

COIL

Power		
At Pickup Voltage (typical)	0.68 W	
Max. Continuous Dissipation	5.1 W at 20°C (68°F)	
Temperature Rise	52°C (94°F) at nominal coil voltage	
Temperature	Max. 155°C (311°F)	

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

GENERAL DATA

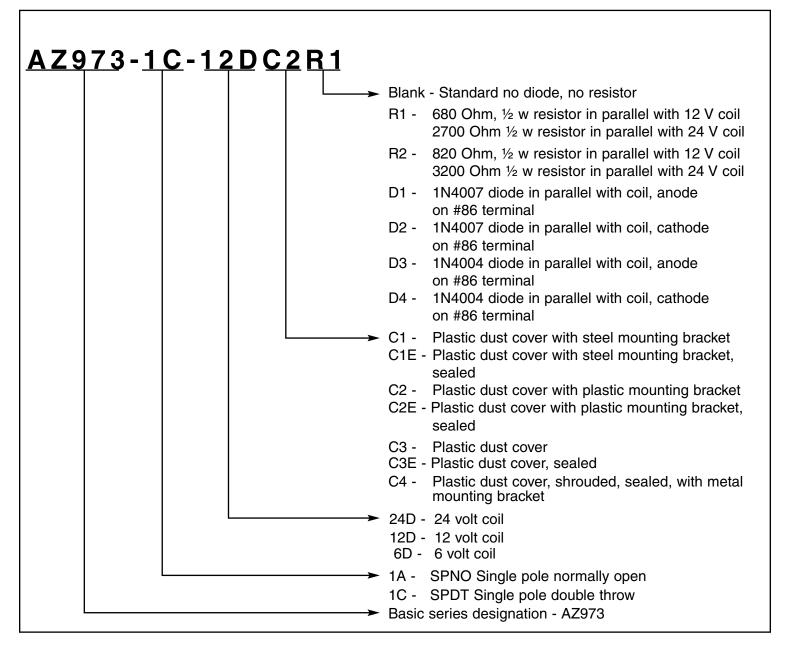
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 40 A 14 VDC Res.	
Operate Time (max.)	7 ms at nominal coil voltage	
Release Time (max.)	5 ms at nominal coil voltage	
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms contact to contact	
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH	
Dropout	Greater than 10% of nominal coil voltage	
Ambient Temperature Operating Storage	-55°C (-67°F) to 110°C (230°F) -55°C (-67°F) to 155°C (311°F)	
Vibration	0.062" DA at 10-40 Hz	
Shock	100 m/s ²	
Enclosure	P.B.T. polyester	
Terminals	Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.	
Weight	31 grams	



RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
6	3.9	10.6	22		
12	7.8	21.0	85		
24	15.6	42.2	350		

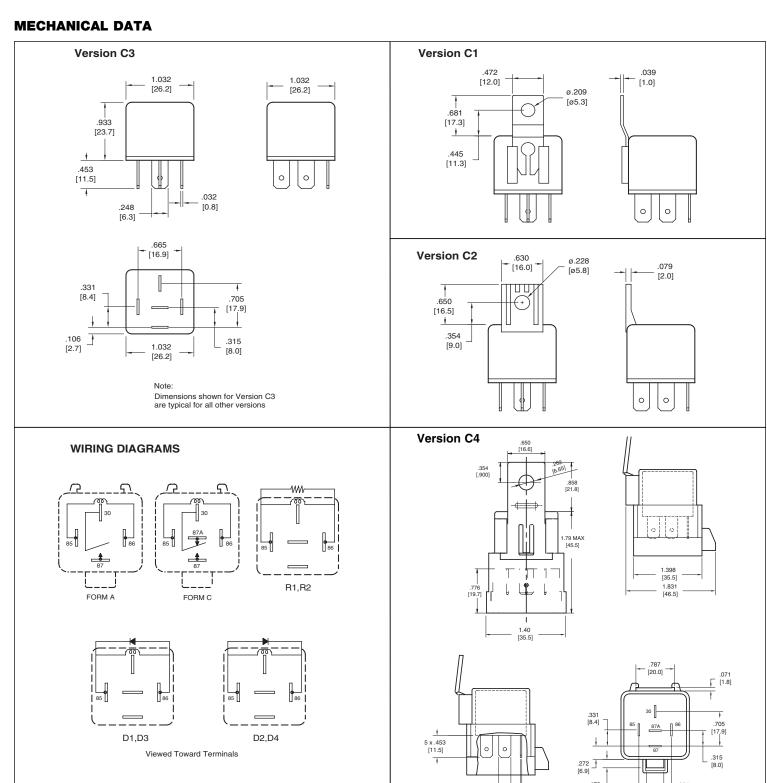
RELAY ORDERING DATA





<u>AMERICAN ZETTLER, INC.</u>

www.azettler.com



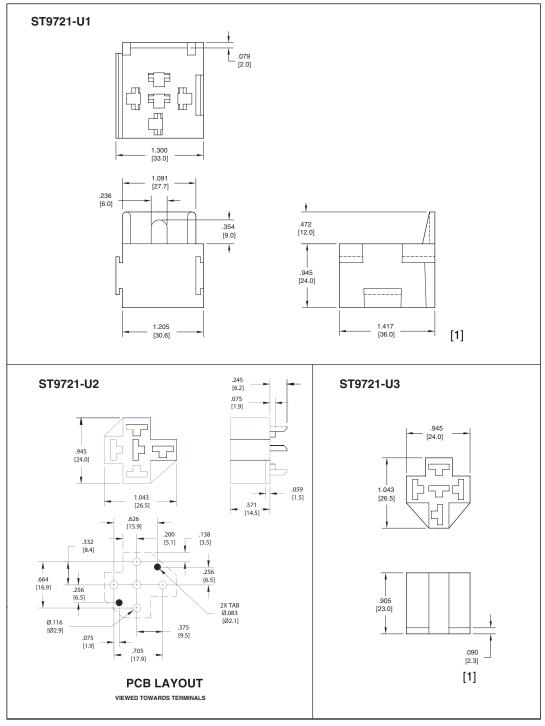
Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



AMERICAN ZETTLER, INC.

Connector for use with Version C4- Connectors to mate with AZ973 relay with the version C4 cover are available from Delphi Connection Systems (www.delphiconnect.com). (Typical Delphi part number is 12065685)

Sockets & Hardware for AZ973



[1] Recommended receptical connector Amp Part numbers are 5-160558-9 or 5-1605-26-9



AMERICAN ZETTLER, INC.

www.azettler.com